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Jameco Part Number 35941CSC

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N270  
1N277  
1N281  
1N283  
GERMANIUM DIODE  
JEDEC DO-7 CASE

The CENTRAL SEMICONDUCTOR 1N100A, 1N270, 1N277, 1N281, 1N283 types are Gold Bonded Germanium Diodes mounted in a hermetically sealed glass case, designed for general purpose application. Special devices with a higher breakdown voltage and/or lower leakage limits are available on special order.

## MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ )

	SYMBOL	1N100A	1N270	1N277	1N281	1N283	UNIT
Peak Repetitive Reverse Voltage	$V_{RRM}$	80	80	100	60	20	V
D.C. Forward Current	$I_F$			100			mA
Peak Forward Current	$I_{FM}$			350			mA
Peak Forward Surge Current(1.0s)*	$I_{FSM}$			500			mA
Power Dissipation**	$P_D$			80			mW
Operating and Storage Junction Temperature	$T_J, T_{STG}$			-65 TO +100			$^\circ\text{C}$

\*Non-recurrent

\*\*Derate above  $25^\circ\text{C}$  10mW/ $10^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	1N100A		1N270		1N277		1N281		1N283		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
$I_R$	$V_R=10V$		-		-		10		30		20	$\mu\text{A}$
$I_R$	$V_R=50V$		50		100		50		500		-	$\mu\text{A}$
$BV_R$	$I_R=1.0\text{mA}$	80		80		100		60		20		V
$V_F$	$I_F=40\text{mA}$		1.0		-		-		-		-	V
$V_F$	$I_F=100\text{mA}$		-		-	1.0		1.0			-	V
$V_F$	$I_F=200\text{mA}$		-		1.0		-		-	1.0		V

